



# *CDF Operations Summary*

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All Experimenters Meeting

August 12, 2002



## *Stores (8/5 – 8/12)*

Store #	hrs	Lumi (E30)	Deliv'd Lumi	Recor' d Lumi	Eff.
1634	17.7	17.4	593.1	249.8	42.1%
1654	15.9	13.4	447.7	398.0	88.9%
1656	15.2	13.3	487.1	410.9	84.3%
1657	23.5	18.4	779.0	577.1	74.1%
total	72.3	----	2306.9	1635.8	70.9%

Store 1634: High Losses prevented CDF from running at start of store  
Store 1657: Efficiency lost while trying to diagnose problem with drift chamber.



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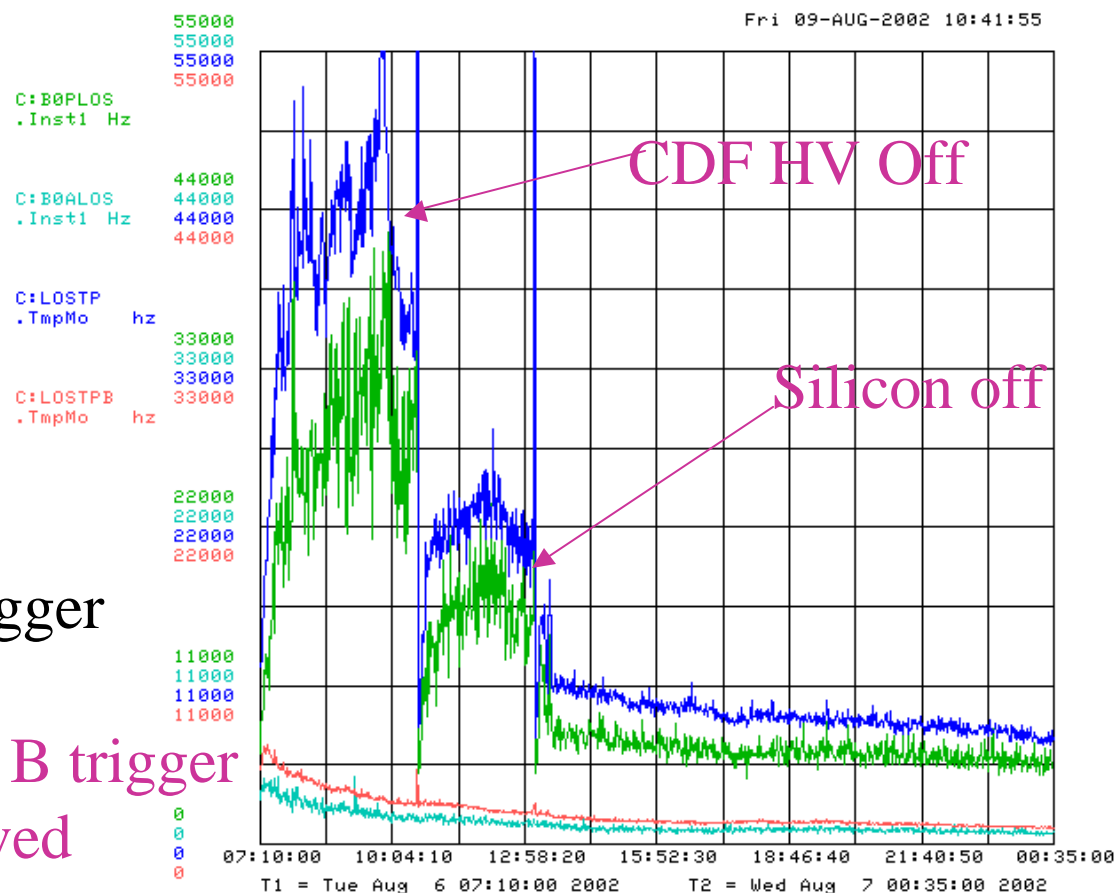
## Store 1634

Losses high at beginning of store

- Silicon out 1<sup>st</sup> 6 hrs
- CDF HV off 1<sup>st</sup> 3 hrs

Once losses came down, spent time testing new trigger tables

- Efficiency for hadronic B trigger at L2 now much improved

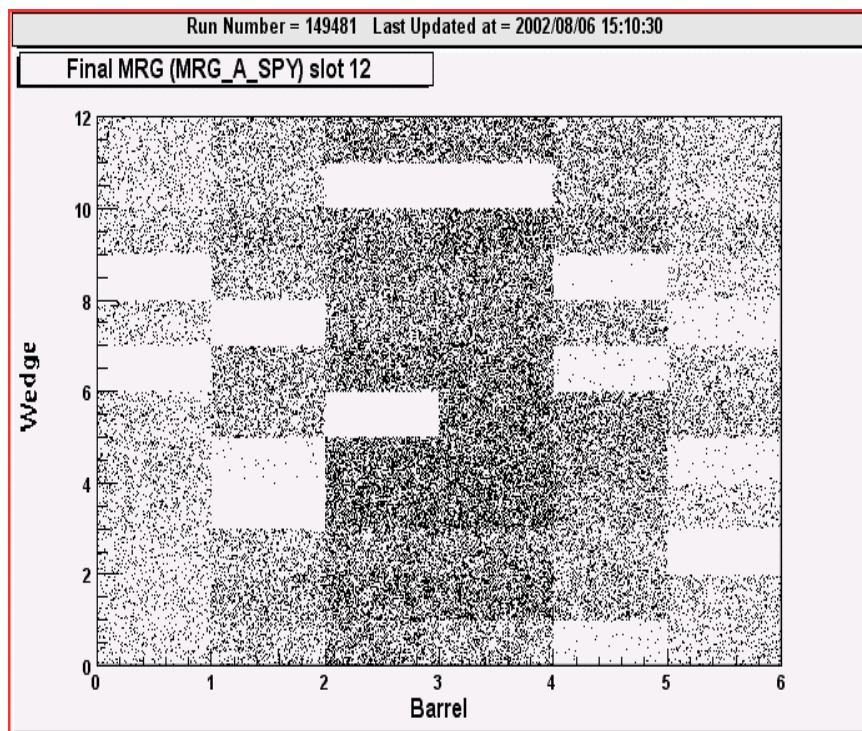




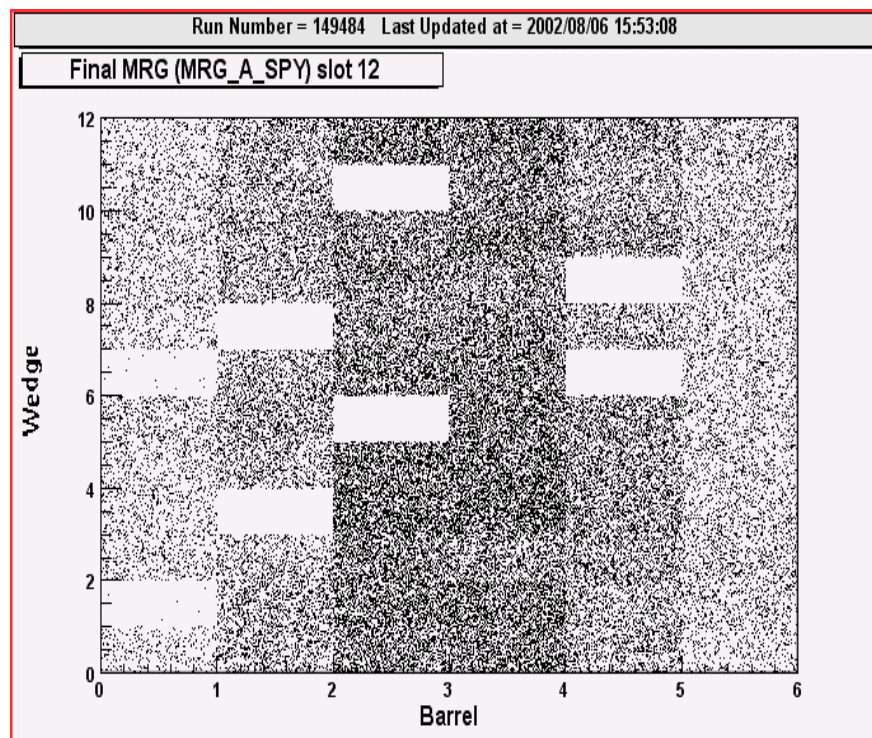
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# *Hadronic B trigger improved!*

before



after



Holes in SVT coverage = Wedges  
with less than 4 (out of 5) ladders

Further improvement: Trigger on trks w/ hits on 3 ladders?



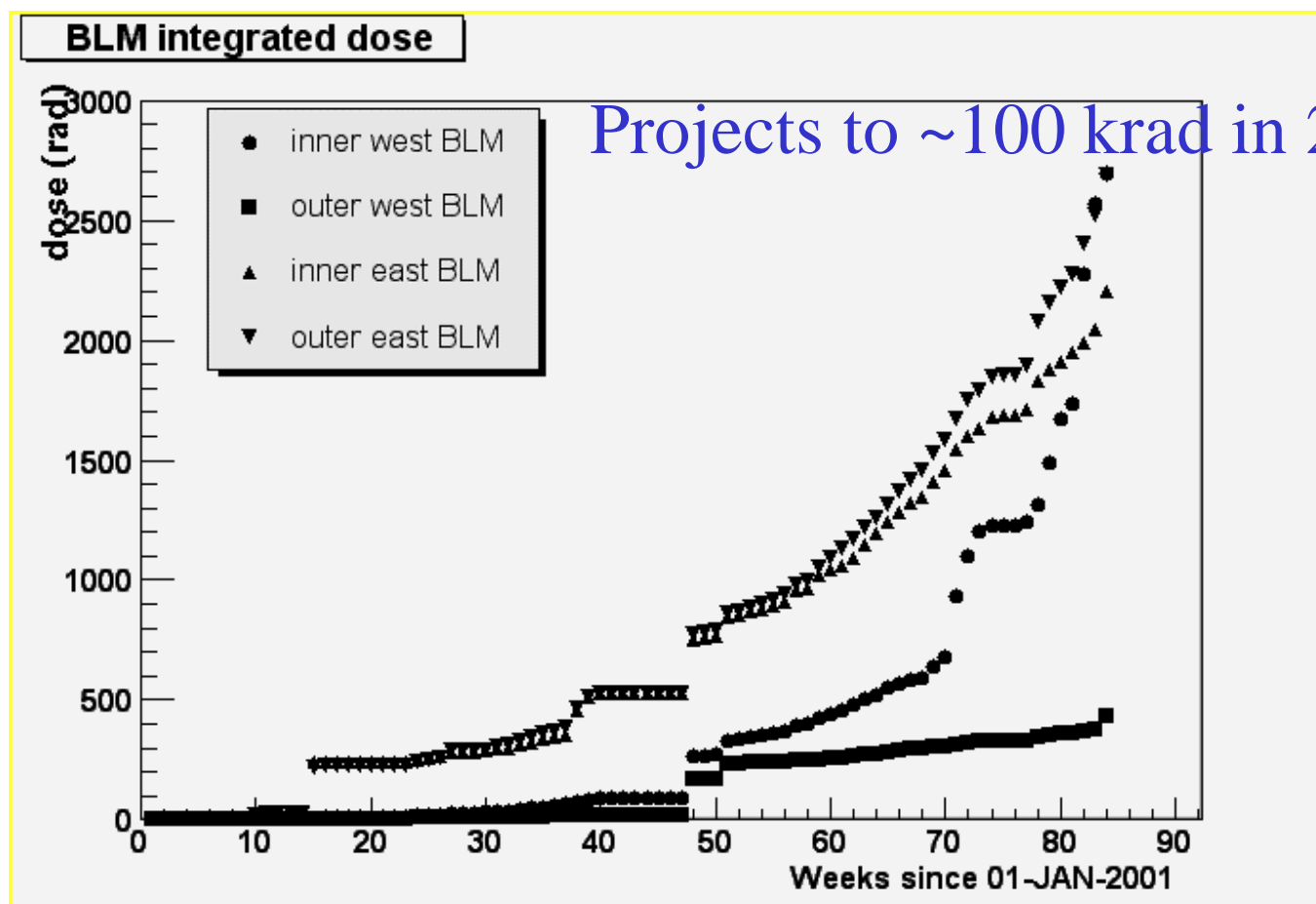
## *COT Problem*

- At start of store 1657 (Sunday morning), shift crew tried to raise COT HV and failed
  - Problem in superlayer 2, quadrant C
  - At least 2 shifts to fix! (need to pull out the endplug on east side, a 4 hr operation).
    - Currently in access – plug has been pulled out, COT experts have access to the endplate
- Silicon stayed out for this store since the runs in this store will be marked “bad”.



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# *Total Silicon Dose*



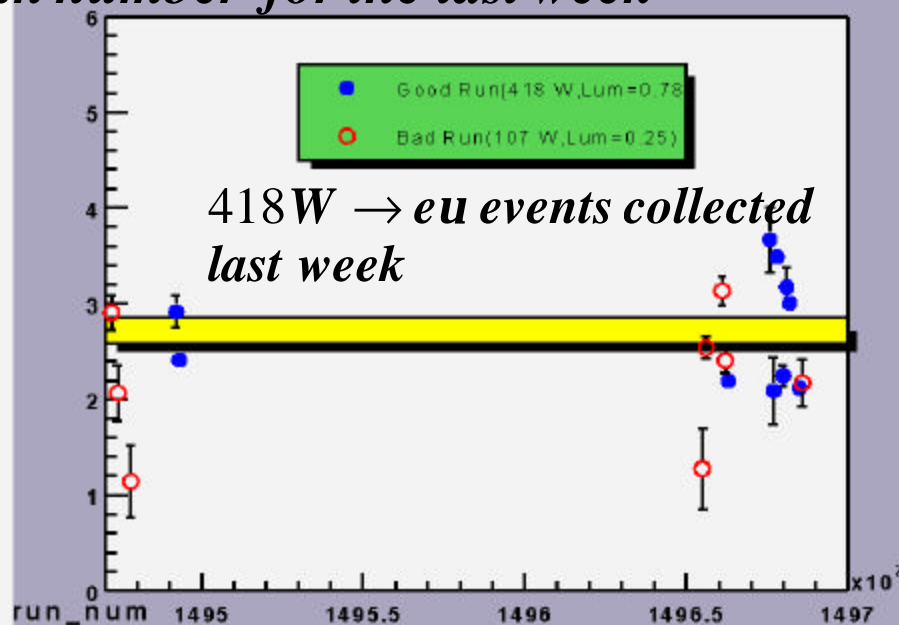
Dose at silicon: ~6x higher than dose at BLM

Projects to ~0.6 Mrad in 2 fb<sup>-1</sup> (limit: ~2 Mrad)

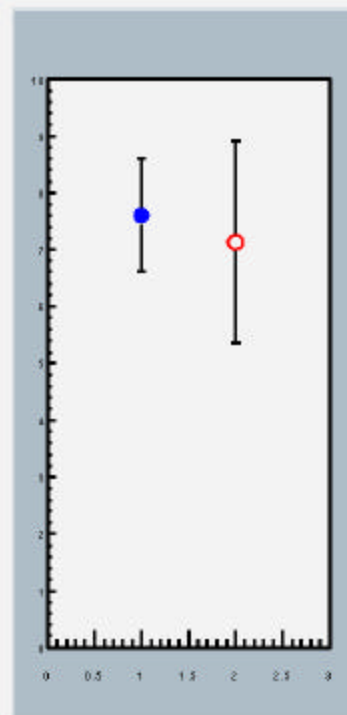


# Monitoring Physics Quantities

*$W \rightarrow eu$  cross section as a function of run number for the last week*



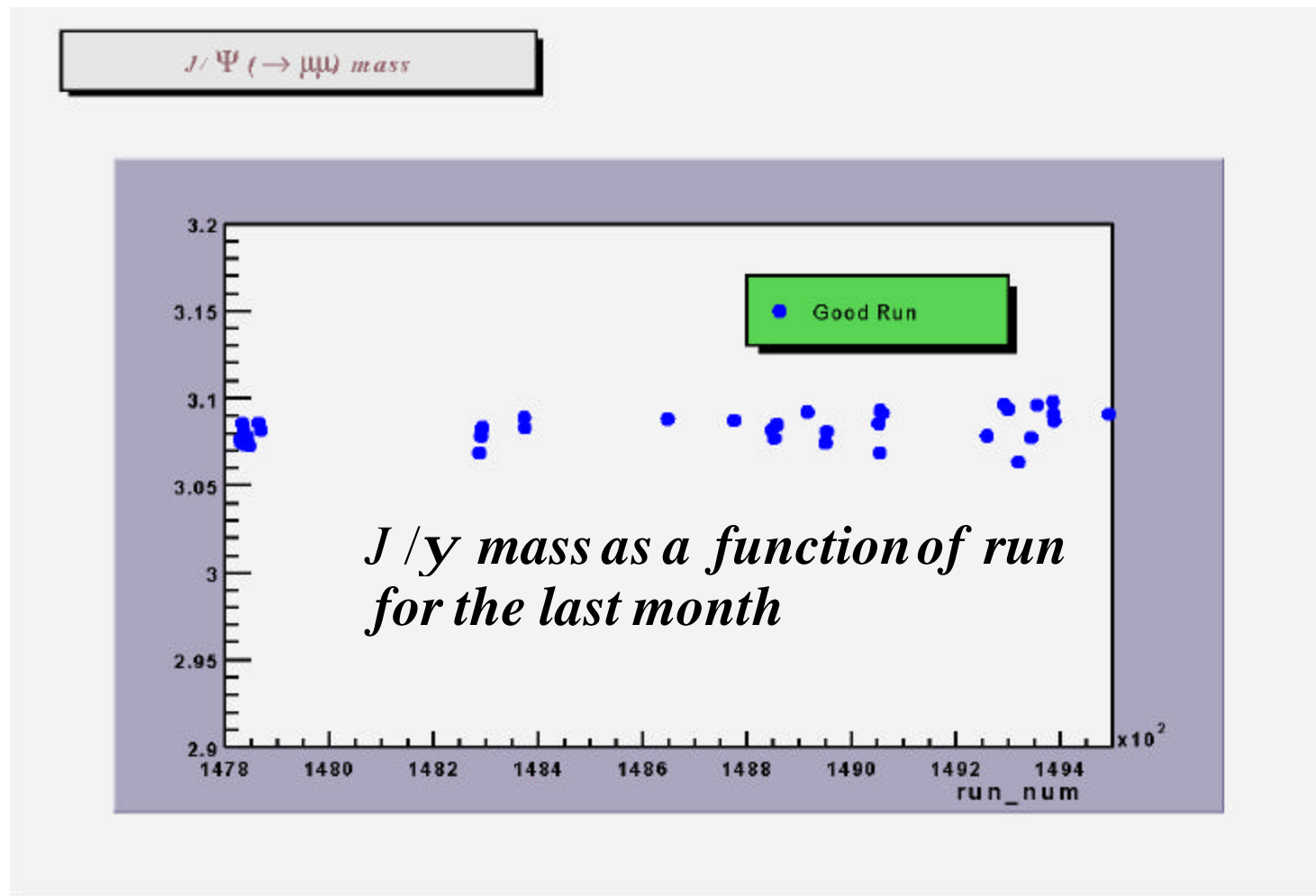
$W/Z$





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# *Monitoring Physics Quantities*







## *Conclusions*

- Two stores over the weekend with  $>85\%$  efficiency, silicon in most of the time
- Improved efficiency for hadronic B trigger
- Can't raise HV for COT superlayer 2, Quadrant C. Currently in access.
- Good luck to the new CDF operations managers: Matthew Jones, Phil Koehn, Eric James.